

# **EXHIBIT V**

**Groundwater Monitoring Report  
Fourth Quarter 1999  
Former Chromal Plating Company Site  
Former Lawry's California Center  
Los Angeles, California  
Case File No. 95-094  
CAO No. 99-037**

**December 1, 1999  
6257.00**



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6257.00**

Prepared For  
California Regional Water Quality Control Board  
Los Angeles Region  
320 West 4th Street, Suite 200  
Los Angeles, California 90013



**BRUCE H. EDELSON, P. E.**  
28520 MEADOWMIST DR.  
RANCHO PALOS VERDES, CA 90275  
310-544-7007 (PHONE)  
310-544-8098 (FAX)  
[BruceEdelson@msn.com](mailto:BruceEdelson@msn.com) (e-mail)

December 10, 1999

Ms Ruth Adelman  
Lipton Companies  
800 Sylvan Rd.  
Englewood Cliffs, NJ 07632

Mr. George Ghebranious, P. E.  
CalTrans – Division VII  
Office of Environmental Planning  
120 S. Spring St.  
Los Angeles, CA 90012

**RE: LAWRY'S CALIFORNIA CENTER – CHROMAL SITE – QUALIFIED  
SETTLEMENT FUND – REPORT FOR NOVEMBER 1999**

Dear Ruth and George

The following is a summary of the work accomplished during the month and the planned activities in December.

**November Activities**

- Resolved issue of inconsistent analytical data for treated non-hazardous soil.
- Accomplished quarterly groundwater sampling and analysis.
- Prepared quarterly report to RWQCB
- Distributed completion report.
- Negotiated credit from Severn Trent Laboratory (STL – formerly Core Laboratories) for inaccurate soil analysis.

**December Activities**

- Remove all excess treated non-hazardous soil to off site.
- Complete Addendum to Completion Report to cover removal of excess non-hazardous soil.
- Provide report to RWQCB on soil disposal.
- Issue "Ready for Development" letter as required by Sale Agreement.
- Issue Purchase Orders for next calendar year.

### **Treated Non-Hazardous Soil Disposal**

After numerous discussions with the RWQCB regarding the analytical information developed by STL (formerly Core Labs) and two other independent laboratories, the Board agreed with the recommendations of our environmental consultant to permit the disposal of the soil as landfill cover at the Bradley Landfill. Prior to giving their concurrence the Board require certain additional analysis, primarily for lead. These analyses were accomplished and on November 24, the Board issued the Waste Discharge Requirements for the disposal of the soil. We plan to dispose of the soil in early December (*It was removed from the site on December 7 & 8.*)

### **Quarterly Groundwater Sampling, Analysis and Reporting**

The fourth quarter groundwater sampling and analysis event was accomplished in November. The Report is provided with this letter. Of particular note is the fact that levels of Total Chrome and Hexavalent Chrome showed as significant decline since the last sampling event. The fourth quarter sampling was accomplished in early November, about 10 weeks after completion of the in-situ stabilization. Whether the decline is a result of the in-situ stabilization or other factors is problematic at this time. Quarterly testing to be accomplished in year 2000 will provide additional data to determine the degree of success of the in-situ stabilization; however, it appears that the works was completely successful.

### **Completion Report**

The soil stabilization completion report was completed and distributed to the RWQCB and addressees of this letter.

### **Credit from STL for Costs Incurred because of Inaccurate Analytical Work**

A \$6,000 credit was obtained from STL for the cost incurred by the QSF as a result of the “inaccurate” analytical work done on the excess soil. Further, STL was not paid for any of this analytical work. The additional cost incurred by the QSF include analytical work done by other laboratories, project management and technical costs incurred by LFR, costs incurred by Raito that are attributed to the delays and additional analytical work, and project management costs incurred by the Remediation Manager. These total additional costs are estimated to be in the range of \$9,000 to \$10,000. The credit provided by STL will be applied against future analytical work required during the quarterly groundwater monitoring events.

### **Current Financial Status**

I have not received the monthly financial statement from the Santa Monica Bank. The November and December statements will be consolidated into the end-of-the- year Annual Report. Expenditures for the in-situ stabilization project are slightly below budget. Based on the preliminary information, it appears there are sufficient funds available in the current accounts to complete the project.

The Santa Monica Bank, which has been part of Western Bancorp for the past two years, has merged with U. S. Bank. The consolidation should be complete about March 2000, at which time the bank will change names to U.S. Bank. Ms Gertrude Tirrell, former Vice President of the Trust Department, has retired. Ms Sheila Rosenberg has taken the position.

Cordially

*[Signature]* **BRUCE H. EDELSON, P.E.**

Bruce H. Edelson, P. E.  
Remediation Supervisor

Cc:    D. Smith, Esq. – Unilever  
      G. Costello, Esq. – CalTrans  
      B. Smiley, Esq. – F, F & S  
      J. Rothman/E. Wintemute – L\*F\*R (w/o encl.)  
      S. Nagy – Lipton Co.

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December 1, 1999

6257.00-172

Ms. Ana Veloz-Townsend  
California Regional Water Quality Control Board  
Los Angeles Region  
320 West 4th Street, Suite 200  
Los Angeles, California 90013

Subject: Groundwater Monitoring Report - Fourth Quarter 1999  
Former Chromal Plating Company Site, Former Lawry's California Center,  
528 San Fernando Road, Los Angeles, California  
Case File No. 95-094; CAO No. 99-037

Dear Ms. Veloz-Townsend:

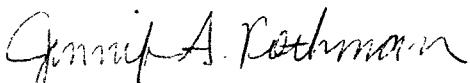
On behalf of the Qualified Settlement Fund, LFR Levine-Fricke (LFR) has prepared the enclosed Groundwater Monitoring Report for the former Chromal Plating Company site at the former Lawry's California Center.

This report contains a summary of groundwater monitoring data for the fourth quarter of 1999. This monitoring was conducted in accordance with the California Regional Water Quality Control Board, Los Angeles Region (RWQCB), Cleanup and Abatement Order (CAO) Number 99-037, which states: "Implement a quarterly groundwater monitoring program for all wells located on the site. Groundwater samples shall be analyzed, at a minimum, for VOC's, total chromium, hexavalent chromium, sulfate, chloride, boron, pH, temperature, and TDS."

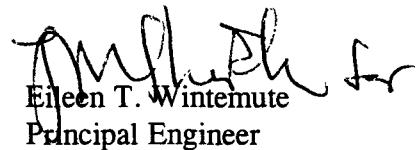
As previously approved by the RWQCB, two of the wells were temporarily abandoned to accommodate recent soil remediation activities. This report contains a recommendation and justification for permanently abandoning these wells and using the remaining wells for groundwater monitoring.

If you have any questions, please contact either of the undersigned at (949) 955-1390.

Sincerely,



Jennifer S. Rothman, P.E.  
Senior Civil Engineer

  
Eileen T. Wintemute  
Principal Engineer

Attachments

cc: Mr. Bruce H. Edelson, P.E. - Qualified Settlement Fund

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- A   Laboratory Report and Chain-of-Custody Documentation

## 1.0 INTRODUCTION

The former Lawry's California Center is located at 570 West Avenue 26, Los Angeles, California. The Lawry's California Center comprised a 17-acre parcel that was at one time developed with a total of 17 buildings, including warehouses, general office facilities, former food processing facilities and restaurants, landscaped courtyards, and parking areas (Figures 1 and 2). The buildings have been demolished in preparation for a Home Depot store that is under construction. The Home Depot is scheduled to open in the middle of December 1999. The former Chromal site (the "Site") consists of a 4,500-square-foot former asphalt parking area located in the southern portion of the former Lawry's California Center property, at 528 San Fernando Road near Figueroa Avenue (Figure 2). Most of this area will become a portion of the parking lot for the new Home Depot.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring for the Site was conducted on November 3, 1999. LFR personnel collected depth-to-groundwater measurements from nine Chromal site vicinity wells (LFCH-2 through LFCH-5, LFCH-7, LFCH-8, and LFCH-10abc). Monitoring well LFCH-6 was not gauged or sampled because it was inaccessible due to the construction activities taking place on the Home Depot site. LFCH-6 will be gauged and sampled during the next groundwater monitoring event (first quarter of 2000). Monitoring well locations are shown on Figure 3.

Following collection of the depth-to-groundwater measurements, the monitoring wells were purged with submersible groundwater pumps and then sampled using disposable bailers. Equipment blank and duplicate samples were collected for quality control purposes. Groundwater samples were submitted to Severn Trent Laboratories (formerly Core Laboratories) of Anaheim, California, for the following analyses: total chromium and hexavalent chromium by EPA Methods 6010B and 7196; volatile organic compounds (VOCs) by EPA Method 8260; boron by EPA Method 6010B; total dissolved solids (TDS) by SM 2540; and chloride and sulfate by SM 4500.

### 2.1 Groundwater Elevation and Flow Direction

Groundwater elevations were calculated from the depth-to-groundwater measurements recorded for the nine groundwater monitoring wells at the Chromal site. Current and historical groundwater elevation data are presented in Table 1. Groundwater elevations decreased by 0.31 to 0.42 foot compared to the June 1999 measurements. Groundwater elevation contours are shown in Figure 3. The horizontal groundwater flow direction beneath the Chromal site vicinity is to the south-southwest at a gradient of approximately 0.002 ft/ft.

## 2.2 Groundwater Analytical Results

Current and historical groundwater quality data are presented in Table 2. Total and hexavalent chromium were not detected above the laboratory detection limits of 0.05 milligrams per liter (mg/l) for total chromium and 0.01 mg/l for hexavalent chromium in wells LFCH-2, LFCH-5, LFCH-7, LFCH-8, LFCH-10b, and LFCH-10c.

Concentrations of total and hexavalent chromium decreased in wells LFCH-3, LFCH-4, and LFCH-10a, as described below:

### LFCH-3

- Total chromium concentrations in LFCH-3 decreased to 0.398 mg/l from the 1.08 mg/l measured in June 1999.
- Hexavalent chromium concentrations in LFCH-3 decreased to 0.07 mg/l from the 0.79 mg/l measured in June 1999.

### LFCH-4

- Total chromium concentrations in LFCH-4 decreased to <0.050 mg/l from the 0.152 mg/l measured in June 1999.
- Hexavalent chromium concentrations in LFCH-4 decreased to 0.01 mg/l from the 0.09 mg/l measured in June 1999.

### LFCH-10a

- Total chromium concentrations in LFCH-10a decreased to 0.560 mg/l from the 9.4 mg/l measured in June 1999.
- Hexavalent chromium concentrations in LFCH-10a decreased to <0.01 mg/l from the 6.1 mg/l measured in June 1999.

The concentrations of halogenated VOCs identified in Chromal site vicinity wells are similar to previous groundwater monitoring results. As described in previous reports, the lack of an on-site source and the low concentrations of these VOCs indicate that an active remediation for VOCs in groundwater is not warranted.

The Chromal site lies between the San Fernando Basin and the Central Basin of the Los Angeles Coastal Plain. According to Table 3-10 of the June 13, 1994 Water Quality Control Plan, Los Angeles Region, the water quality objectives for selected constituents in groundwater in this region are as follows:

- TDS: 700 mg/l

- Sulfate: 250 mg/l
- Chloride: 150 mg/l
- Boron: 1.0 mg/l

TDS concentrations exceeded 700 mg/l in all of the wells sampled with the exception of LFCH-3. TDS concentrations ranged from 512 mg/l to 1,640 mg/l. Sulfate concentrations were above 250 mg/l in all of the wells with the exception of LFCH-3, LFCH-7, LFCH-10b, and LFCH-10c. Sulfate concentrations ranged from 78 mg/l to 381 mg/l. Chloride concentrations were above 150 mg/l in monitoring wells LFCH-4, LFCH-5, LFCH-8, and LFCH-10c. Chloride concentrations were less than the U.S. EPA's secondary drinking water standard of 250 mg/l in all but one well, LFCH-10c. Chloride concentrations ranged from 82.6 mg/l to 287 mg/l. Boron concentrations were below 1.0 mg/l in all the wells sampled with the exception of LFCH-4, LFCH-5, LFCH-8, and LFCH-10c. Boron concentrations ranged from 0.375 mg/l to 2.15 mg/l.

### **2.3 Continued Groundwater Monitoring**

The next round of groundwater monitoring is scheduled for the first quarter of 2000 as specified in Attachment A of the CAO. The next quarterly groundwater report will be submitted by May 1, 2000.

### **3.0 FORMER MONITORING WELLS LFCH-1 AND LFCH-9**

Monitoring wells LFCH-1 and LFCH-9 were abandoned prior to soil remediation activities because they were located within the in situ soil mixing treatment area. As shown on Figure 3, other existing monitoring wells surround the area where these wells were located. Specifically, monitoring well LFCH-6 is located upgradient of the former wells; monitoring wells LFCH-3, LFCH-4, LFCH-7, and LFCH-8 are located downgradient of the former wells; and monitoring well LFCH-10abc is located in close proximity to the former wells (approximately 20 feet to the west). We believe that the remaining wells provide sufficient coverage to monitor the plume. Based on this and the decreasing chromium concentrations measured in all wells during the November 1999 sampling event, we believe that replacing LFCH-1 and LFCH-9 is not warranted and will not provide significant additional information for monitoring the plume. We recommend that the RWQCB approve the permanent abandonment of these two wells and the corresponding change in the groundwater-monitoring plan for the Site.

## **TABLES**

**Table 1**  
**Groundwater Elevation Measurements**  
 Chromal Plating Site Vicinity  
 Lawry's California Center  
 LFR 6257 00

Page 1 of 3

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-1	06/02/93	334.23	39.44	294.79	-
	03/16/94		40.89	293.34	-1.45
	04/14/94		41.02	293.21	-0.13
	01/06/95		41.27	292.96	-0.25
	06/06/95		40.09	294.14	1.18
	12/28/95		40.78	293.45	-0.69
	04/11/96		40.80	293.43	-0.02
	05/20/96		40.67	293.56	0.13
	10/07/96		40.85	293.38	-0.18
	12/30/96		40.97	293.26	-0.12
	06/24/97		40.65	293.58	0.32
	08/20/97		40.84	293.39	-0.19
	02/10/98		40.55	293.68	0.29
	07/30/98		39.35	294.88	1.20
	01/28/99		40.22	294.01	-0.87
LFCH-2	03/16/94	334.33	41.17	293.16	-
	04/14/94		41.28	293.05	-0.11
	01/06/95		41.53	292.80	-0.25
	06/06/95		40.36	293.97	1.17
	12/28/95		41.04	293.29	-0.68
	04/11/96		41.05	293.28	-0.01
	05/20/96		40.93	293.40	0.12
	10/07/96		41.10	293.23	-0.17
	12/30/96		41.22	293.11	-0.12
	06/24/97		40.91	293.42	0.31
	08/20/97		41.10	293.23	-0.19
	02/10/98		40.80	293.53	0.30
	07/30/98		39.65	294.68	1.15
	01/28/99		40.50	293.83	-0.85
	06/03/99		40.75	293.58	-0.25
	11/03/99		41.17	293.16	-0.42
LFCH-3	03/16/94	334.73	41.86	292.87	-
	04/14/94		41.97	292.76	-0.11
	01/06/95		42.16	292.57	-0.19
	06/06/95		41.07	293.66	1.09
	12/28/95		41.73	293.00	-0.66
	04/11/96		41.75	292.98	-0.02
	05/20/96		41.61	293.12	0.14
	10/07/96		41.47	293.26	0.14
	12/30/96		41.88	292.85	-0.41
	06/24/97		41.58	293.15	0.30
	08/20/97		41.77	292.96	-0.19
	02/10/98		41.48	293.25	0.29
	07/30/98		40.40	294.33	1.08
	01/28/99		41.25	293.48	-0.85
	06/03/99		41.52	293.21	-0.27
	11/03/99		41.85	292.88	-0.33

**Table 1**  
**Groundwater Elevation Measurements**  
 Chromal Plating Site Vicinity  
 Lawry's California Center  
 LFR 6257.00

Page 2 of 3

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-4	06/06/95	333.60	39.83	293.77	-
	12/28/95		40.47	293.13	-0.64
	04/11/96		40.51	293.09	-0.04
	05/20/96		40.37	293.23	0.14
	10/07/96		40.54	293.06	-0.17
	12/30/96		40.64	292.96	-0.10
	06/24/97		40.35	293.25	0.29
	08/20/97		40.53	293.07	-0.18
	02/10/98		40.24	293.36	0.29
	07/30/98		39.15	294.45	1.09
	01/28/99		40.00	293.60	-0.85
	06/03/99		40.27	293.33	-0.27
	11/03/99		40.62	292.98	-0.35
LFCH-5	06/06/95	331.22	37.31	293.91	-
	12/28/95		37.97	293.25	-0.66
	04/11/96		37.80	293.42	0.17
	05/20/96		37.84	293.38	-0.04
	10/07/96		38.02	293.20	-0.18
	12/30/96		38.12	293.10	-0.10
	06/24/97		37.84	293.38	0.28
	08/20/97		38.00	293.22	-0.16
	02/10/98		37.68	293.54	0.32
	07/30/98		36.65	294.57	1.03
	01/28/99		37.45	293.77	-0.80
	06/03/99		37.75	293.47	-0.30
	11/03/99		38.10	293.12	-0.35
LFCH-6	06/06/95	334.88	40.60	294.28	-
	12/28/95		40.43	294.45	0.17
	04/11/96		40.45	294.43	-0.02
	05/20/96		40.32	294.56	0.13
	10/07/96		40.52	294.36	-0.20
	12/30/96		40.64	294.24	-0.12
	06/24/97		40.32	294.56	0.32
	08/20/97		41.37	293.51	-1.05
	02/10/98		41.10	293.78	0.27
	07/30/98		39.87	295.01	1.23
	01/28/99		40.80	294.08	-0.93
	06/03/99		41.10	293.78	-0.30
LFCH-7	10/05/95	338.23	44.95	293.28	-
	12/28/95		45.38	292.85	-0.43
	04/11/96		45.40	292.83	-0.02
	05/20/96		45.25	292.98	0.15
	10/08/96		45.41	292.82	-0.16
	12/30/96		45.52	292.71	-0.11
	06/24/97		45.23	293.00	0.29
	08/20/97		45.41	292.82	-0.18
	02/10/98		45.07	293.16	0.34
	07/30/98		44.05	294.18	1.02

**Table 1**  
**Groundwater Elevation Measurements**  
 Chromal Plating Site Vicinity  
 Lawry's California Center  
 LFR 6257.00

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-7 (continued)	01/28/99		44.88	293.35	-0.83
	06/03/99		45.15	293.08	-0.27
	11/03/99		45.50	292.73	-0.35
LFCH-8	10/05/95	329.74	36.55	293.19	-
	12/28/95		36.94	292.80	-0.39
	04/11/96		36.96	292.78	-0.02
	05/20/96		36.81	292.93	0.15
	10/07/96		36.90	292.84	-0.09
	12/30/96		37.02	292.72	-0.12
	06/24/97		36.73	293.01	0.29
	08/20/97		37.90	291.84	-1.17
	02/10/98		36.55	293.19	1.35
	07/30/98		35.80	293.94	0.75
	01/28/99		36.45	293.29	-0.65
	06/03/99		36.61	293.13	-0.16
	11/03/99		36.92	292.82	-0.31
LFCH-9	08/20/97	334.38	41.04	293.34	-
	02/10/98		40.74	293.64	0.30
	07/30/98		39.55	294.83	1.19
	01/28/99		40.02	294.36	-0.47
LFCH-10A	08/20/97	333.40	40.08	293.32	-
	02/10/98		39.91	293.49	0.17
	07/30/98		38.42	294.98	1.49
	01/28/99		39.30	294.10	-0.88
	06/03/99		39.60	293.80	-0.30
	11/03/99		39.98	293.42	-0.38

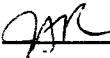
**NOTES:**

Survey of top-of-well casing elevations provided by Calvada Surveying,  
 and performed by a California Licensed Land Surveyor.

REL - Relative Elevation

MSL - Mean Sea Level

BTC - Below Top of Casing

QA/QC: 

**Table 2:**  
**Summary of Groundwater Analytical Data**  
 Chromal Plating Site Vicinity  
 Lawry's California Center  
 LFR 6257.00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260											TDS	Chloride	Sulfate	Boron
			Total	Hexavalent	PCE	TCE	DCFM	TCM	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naph	Alkylbenzenes	Other VOCs				
LFCH-1	Chromal Site	06/02/93	11	12	0.033	0.002	0.02	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA
		03/16/94	35	34	0.023	0.0042	0.011	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA
		06/06/95	25	27	0.013	0.0038	0.0024	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA
		12/28/95	20	1.8 *	0.019	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA
		04/12/96	8.9	9.9	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	0.240	ND	--	NA	NA	NA	NA
		05/21/96	11	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA
		10/08/96	7.1	7.1	0.014	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		12/30/96	10	10	0.01	0.0036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		06/25/97	6.8	6.8	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		08/20/97	6.6	6.4	0.0098	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		02/11/98	2.3	1.7	0.008	0.0053	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		07/30/98	13	12	0.014	<0.001	<0.001	0.0017	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		01/28/99	4.17	4.56	0.018	<0.001	<0.002	0.0011	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
LFCH-2	Crossgradient	03/16/94	0.0096	<0.02	0.024	<0.002	<0.002	<0.002	0.0045	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		06/06/95	<0.01	<0.01	0.017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		12/28/95	0.02	<0.01	0.026	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA
		04/11/96	<0.050	<0.01	0.038	0.002	<0.001	<0.001	<0.001	0.009	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
		10/08/96	<0.050	<0.01	0.023	0.003	<0.001	<0.001	0.002	0.0024	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		12/30/96	<0.050	<0.01	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA
		06/24/97	<0.050	<0.01	0.005	0.0063	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA
		08/20/97	<0.050	<0.01	0.018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA
		02/11/98	<0.050	0.01	0.014	0.0014	<0.001	0.0016	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA
		07/30/98	<0.050	<0.01	0.018	0.0011	<0.001	0.0018	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA
		01/28/99	<0.050	0.02	0.028	<0.001	<0.002	0.0014	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA
		06/03/99	<0.050	<0.01	0.0174	<0.001	<0.002	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	972	111	198**	<0.05	
		11/03/99	<0.050	<0.01	0.0107	<0.001	<0.002	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	918	138	257	0.656	
LFCH-3	Downgradient	03/16/94	1.3	1.4	0.029	<0.002	0.013	<0.002	0.0048	0.039	0.055	0.182	0.02	0.0623	--	NA	NA	NA	NA
		06/06/95	0.76	0.82	0.017	0.0027	0.0081	<0.005	0.0033	0.023	0.089	0.129	0.022	0.0624	--	NA	NA	NA	NA
		12/28/95	1.4	0.02 *	0.015	<0.005	NA	NA	0.008	0.055	0.18	0.32	NA	NA	--	NA	NA	NA	NA
		04/12/96	0.97	0.88	0.018	<0.005	<0.005	<0.005	0.006	0.096	0.1	0.235	0.038	0.068	--	NA	NA	NA	NA
		05/21/96	0.94	0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA
		10/07/96	0.94	0.89	0.014	<0.005	<0.005	<0.005	<0.005	0.034	0.1	0.175	0.024	0.0454	--	NA	NA	NA	NA
		12/30/96	0.58	0.5	0.0074	<0.005	<0.005	<0.005	<0.005	0.04	0.086	0.164	<0.005	0.0583	--	NA	NA	NA	NA
		06/25/97	0.45	0.3	<0.02	<0.02	<0.02	<0.02	<0.02	0.071	0.21	0.34	0.13	0.134	--	NA	NA	NA	NA
		08/22/97	0.5	0.46	0.011	<0.005	<0.005	<0.005	<0.005	0.029	0.11	0.143	0.023	0.0494	--	NA	NA	NA	NA
		02/11/98	0.15	0.01															

**Table 2:**  
**Summary of Groundwater Analytical Data**  
**Chromal Plating Site Vicinity**  
**Lawry's California Center**  
**LFR 6257.00**

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260												TDS	Chloride	Sulfate	Boron
			Total	Hexavalent	PCE	TCE	DCFM	TCM	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naph	Alkylbenzenes	Other VOCs					
LFCH-4 (continued)	Downgradient	08/22/97	0.14	0.05	0.004	0.0064	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	0.0035	ND	--	NA	NA	NA	NA	
		02/11/98	<0.050	<0.01	0.0062	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	0.14	<0.01 *	0.0076	0.0038	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/29/99	0.404	0.41	0.01	0.0034	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	0.152	0.09	0.00583	0.00505	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1170	209	178**	<0.05	
		11/03/99	<0.050	0.01	0.00479	0.00621	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1260	235	292	1.45	
LFCH-5	Downgradient	06/06/95	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		12/28/95	0.055	<0.01 *	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	<0.001	<0.001	<0.001	0.003	0.011	<0.001	<0.003	0.008	ND	--	NA	NA	NA	NA	NA	
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/07/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		12/31/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/25/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		08/22/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/11/98	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	<0.050	<0.01	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/29/99	<0.050	<0.01	0.0013	0.0026	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1560	216	239**	<0.05	
		11/03/99	<0.050	<0.01	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1640	227	381	215	
LFCH-6	Upgradient	06/06/95	<0.01	<0.01	0.0073	0.0038	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		12/28/95	0.008	<0.01	0.007	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	0.007	0.011	<0.001	<0.001	0.004	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA	
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/07/96	<0.050	<0.01	0.005	0.0071	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		12/30/96	<0.050	<0.01	0.0042	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/24/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		08/20/97	<0.050	<0.01	0.0084	0.0054	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/11/98	<0.050	<0.01	0.0067	0.0053	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/31/98	<0.050	<0.01	0.012	0.0024	<0.001	0.0021	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	<0.050	<0.01	0.0169	0.0016	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	<0.050	<0.01	0.0109	0.00267	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	940	112	176**	<0.05	
		06/03/99	<0.050	<0.01	0.0107	0.00262	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	890	117	181**	<0.05	
LFCH-7	Downgradient	10/05/95	0.037	<0.01	<0.01	<0.01	<0.01	0.82	0.52	0.027	<0.030	0.49	0.325	--	NA	NA	NA	NA	NA	
		12/29/95	<0.050	<0.01	<0.025	<0.025	NA	<0.025	0.47	<0.025	<0.025	NA	NA	--	NA	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	<0.025															

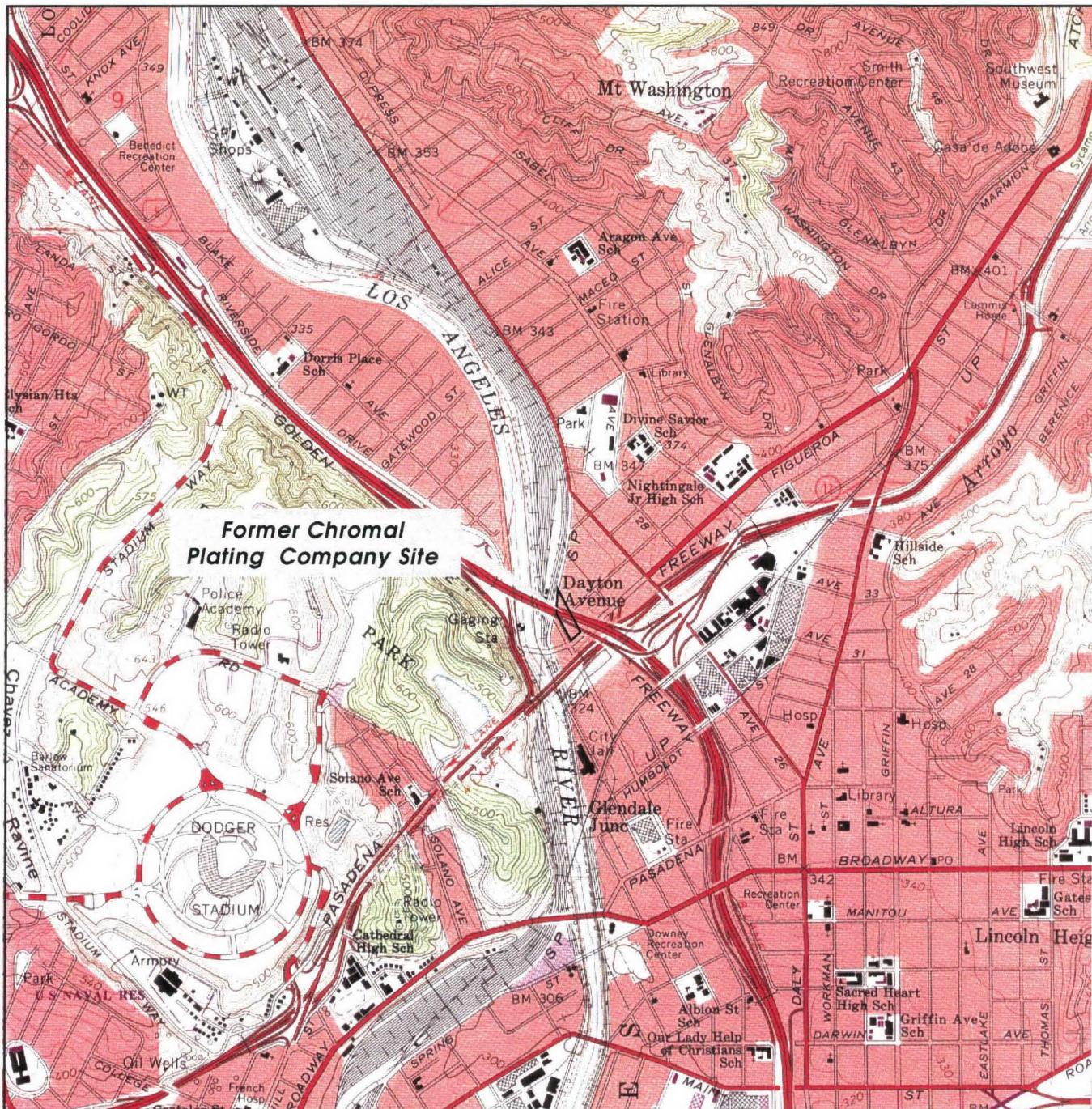
**Table 2:**  
**Summary of Groundwater Analytical Data**  
 Chromal Plating Site Vicinity  
 Lawry's California Center  
 LFR 6257.00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260												TDS	Chloride	Sulfate	Boron
			Total	Hexavalent	PCE	TCE	DCFM	TCM	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naph	Alkylbenzenes	Other VOCs					
LFCH-8	Downgradient	10/05/95	0.066	<0.01	<0.002	0.0020	<0.002	<0.002	<0.002	0.0033	<0.002	<0.0060	<0.002	ND	--	NA	NA	NA	NA	
		12/29/95	<0.050	0.03	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	<0.001	0.002	<0.001	<0.001	<0.001	0.054	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/07/96	<0.050	<0.01	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		12/30/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	0.0031	<0.001	0.0027	0.0066	<0.001	0.0083	--	NA	NA	NA	NA	
		06/25/97	<0.050	<0.01	0.0016	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		08/21/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/11/98	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/31/98	<0.050	0.02	0.0019	0.0029	<0.001	0.0013	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	<0.050	0.04	0.0025	0.0025	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	<0.050	<0.01	0.00135	0.0023	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1560	277	252**	<0.05	
		11/03/99	<0.050	<0.01	0.00175	0.00234	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1520	229	322	1.88	
LFCH-9	Chromal Site	08/20/97	<0.050	<0.01	0.0067	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/10/98	0.35	<0.01	0.011	0.0023	<0.001	0.0013	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	0.66	1.1	0.015	<0.001	<0.001	0.0018	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	0.211	0.23	0.017	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
LFCH-10A	Chromal Site	08/21/97	9.6	9.2	0.0068	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/10/98	12	8.5	0.011	0.0032	<0.001	0.0013	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/10/98	11	9.9	0.012	0.0034	<0.001	0.0014	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	6.1	5.0	0.015	<0.001	<0.001	0.0016	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	6.2	5.3	0.014	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	9.62	7.16	0.0123	<0.001	<0.002	0.0011	<0.001	0.00301	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	11.9	7.05	0.0133	<0.001	<0.002	0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	9.4	6.1	0.00184	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	904	112	191**	<0.05	
		11/03/99	0.560	<0.01	0.0861	0.00178	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	919	121	362	0.618	
LFCH-10B	Chromal Site	08/21/97	<0.050	<0.01	0.0022	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/10/98	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	<0.050	<0.01	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	<0.050	<0.01	0.0012	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	0.001	ND	--	NA	NA	NA	NA	
		06/03/99	<0.050	<0.01	0.00215	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	770	134	98**	<0.05	
		11/03/99	<0.050	<0.01	0.00101	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	842	139	200	0.749	
LFCH-10C	Chromal Site	08/21/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/10/98	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	<0.050	<0.01	<0.001	0.0014	<0.001	<0.001</												

## **FIGURES**

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MAP SOURCE: U.S.G.S Topographic Map, 7.5' Quadrangle, Los Angeles, California, 1981.

0 1,000 2,000 4,000 feet

6257-30 031299SJO/scj

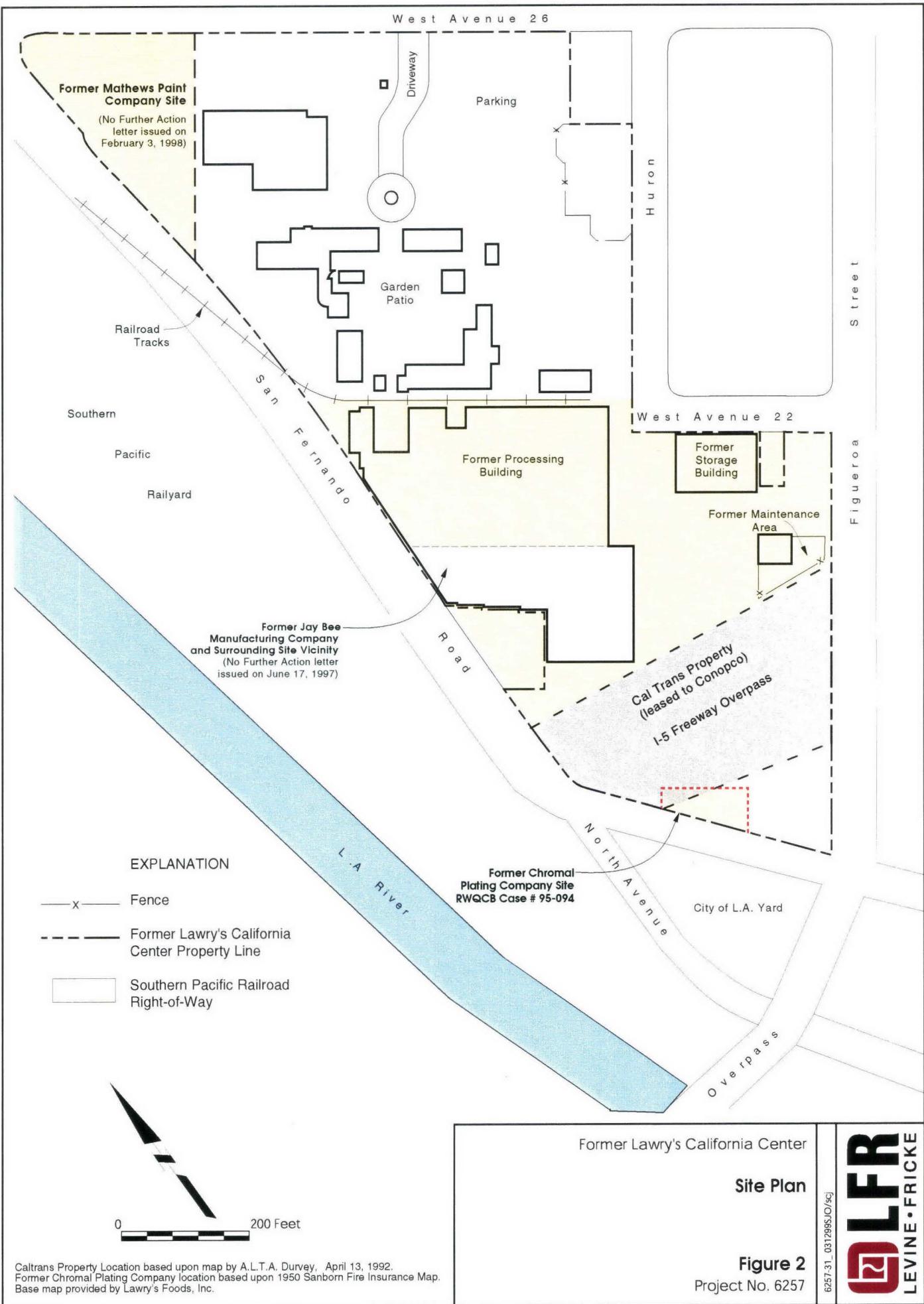
Former Chromal Plating Company Site

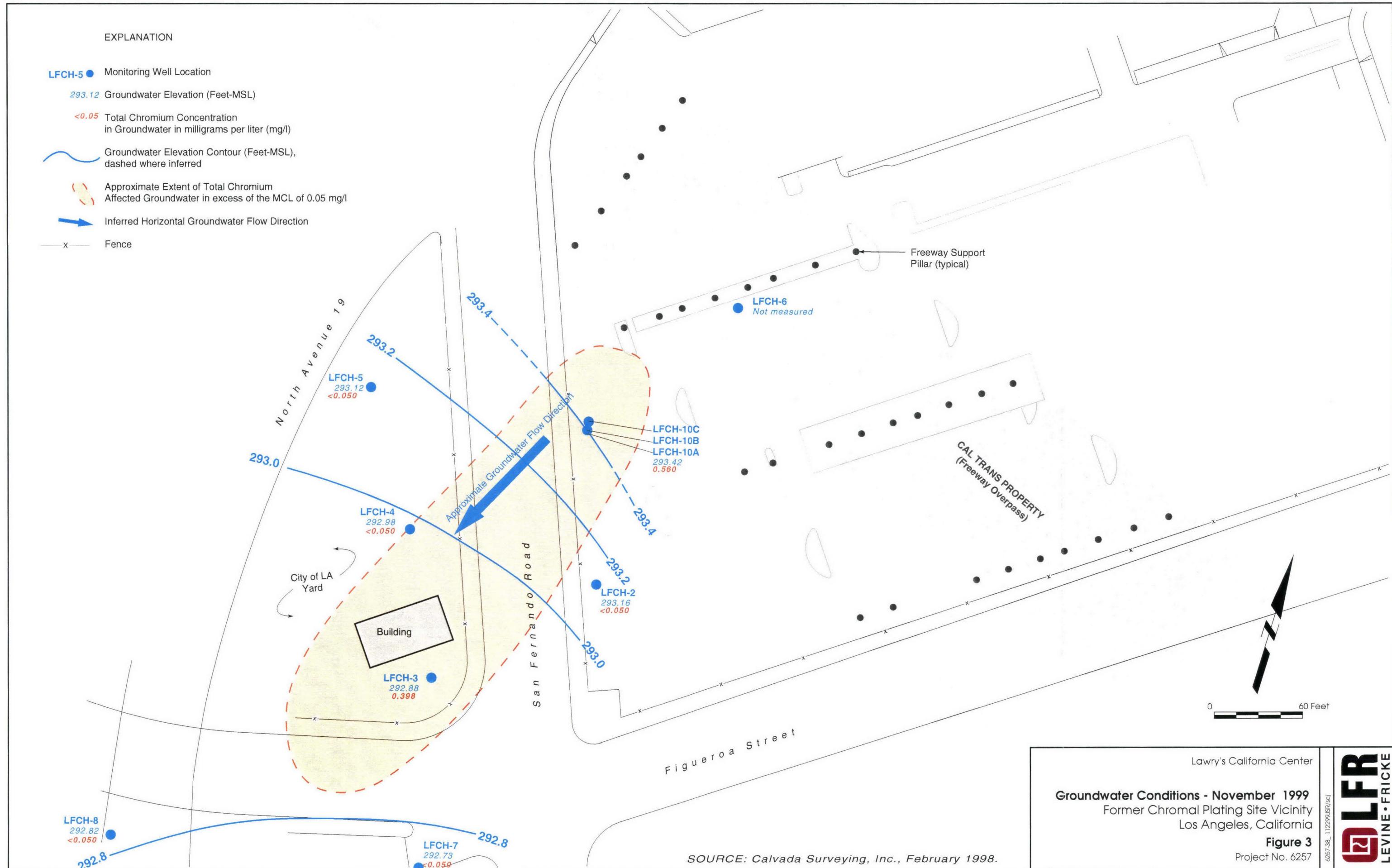


**Site Vicinity**

**Figure 1**

Project No. 6257





Levine Fricke

Groundwater Conditions - November 1999  
Former Chromal Plating Site Vicinity  
Los Angeles, California

Figure 3  
Project No. 6257

LFR  
LEVINE FRICKE

6257-38\_112999(sci)

